

Iscaguard OP

Paraben Free	Thiazolinone Free	Formaldehyde Free	Preservative Free	Natural
✓	✓	✓	✗	✗

INCI declaration
Phenoxyethanol, Caprylyl glycol

Iscaguard OP is a liquid preservative blend based on Caprylyl glycol and Phenoxyethanol. It is a mild, versatile, effective preservative for personal care formulations that is highly efficient against yeasts, mould and fungi as well as bacteria. Iscaguard OP has the added benefit of headspace protection from the inclusion of Phenoxyethanol.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.5 – 1.0 %	1.8 %
Rinse-off	0.5 – 1.0 %	1.8 %

In use concentrations vary according to the formulation type and other ingredients present. The correct use dosage should be determined by microbial challenge testing of the finished formulation (ISCA UK offers discounted challenge testing to our customers).

Recommended Applications

Shampoo, Shower gel (Rinse-off)	Creams, lotions (Leave-on)	O/W emulsions	W/O emulsions	Wet wipes	Eye care	Lip Care	Oral care	Children under 3
●	●	●	●	●	●	●	●	●

Use scenarios derived from evaluation of Cosmetic Regulation guidelines and preservative performance for typical formulations.

Formulation guidelines	
pH (effective range)	4.0 – 8.0
Solubility (Water)	~ 0.6 %
Solubility (glycols)	Miscible
Maximum Process Temperature	80 °C
General information	

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.4
Escherichia coli	0.2
Bacteria (gram-positive)	
Staphylococcus aureus	0.4

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.4
Moulds	
Aspergillus brasiliens	0.2


Physical Properties (approximate)	
Appearance	Liquid
Colour	Clear
Odour	Low odour

Physical Properties (approximate)	
Density	1.02 g/cm ³
Solubility in water	0.6 %
Solubility in glycols	Miscible

Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

Transport information	
	not regulated
UN number	-
UN proper shipping name	-
Transport hazard class	-
Packing group	-
Environmental hazards	-

Hazard classification/labelling	
Hazard pictograms	
Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.